

Title (en)

Printing small flat objects using direct rotary printing apparatus

Title (de)

Bedrucken von kleinen flachen Gegenständen unter Verwendung von Direktdruckrotationseinrichtungen

Title (fr)

Impression de petits objets plats avec utilisation d'appareils rotatifs d'impression directe

Publication

EP 0870606 A3 19990120 (EN)

Application

EP 97310270 A 19971218

Priority

US 77876097 A 19970106

Abstract (en)

[origin: US5951239A] A system for the flexographic printing of compact discs is provided in which the transport member for the compact discs travels in an oval-shaped path. The transport member is made up of individual segments connected together so that each end can be pivoted on a vertical axis. These individual segments are provided with top and bottom rollers that are engaged by a sprocket drive. A support member for a compact disc tooling fixture is attached to each of the individual segments. The flexographic print heads are caused to move at the same rate as the transport member for the compact discs by rack segments that are provided on each of the individual segments of the transport member and which mesh with a toothed gear on the print heads. The flexographic print heads can be moved laterally and radially to provide registration of the decoration to be printed on the compact disc supported by a particular tooling fixture for the compact disc. A vacuum manifold is provided that is mounted to, and moves with, the transport member that supplies vacuum to each of the compact disc tooling fixtures.

IPC 1-7

B41F 5/24; **B41F 17/26**

IPC 8 full level

B41F 5/24 (2006.01); **B41F 17/16** (2006.01); **B41F 17/26** (2006.01)

CPC (source: EP US)

B41F 5/24 (2013.01 - EP US); **B41F 17/16** (2013.01 - EP US); **B41F 17/26** (2013.01 - EP US); **B41P 2200/12** (2013.01 - EP US); **B41P 2217/55** (2013.01 - EP US); **Y10S 414/121** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 5951239 A 19990914; CA 2226270 A1 19980706; EP 0870606 A2 19981014; EP 0870606 A3 19990120; US 5730048 A 19980324; US 5865114 A 19990202; US 5954189 A 19990921; US 6000329 A 19991214

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US 96632697 A 19971107; CA 2226270 A 19980105; EP 97310270 A 19971218; US 77876097 A 19970106; US 85080197 A 19970502; US 85142497 A 19970505; US 87076197 A 19970606